OM nucleic - nucleic search, using sw model

GenCore version 5.1.7
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Run on: February 10, 2006, 05:26:42 ; Search time 4815 seconds
(without alignments)
10270.779 Million cell updates/sec

Title: US-10-600-997-7
Perfect score: 870
Sequence: 1 atgaagacattgctgctgcat.........ccatatgtgtgaggagtcaa 870

Scoring table: IDENTITY_NUC
                Gapop 10.0 , Gapext 1.0

Searched: 5883141 seqs, 2842172653 residues
Total number of hits satisfying chosen parameters: 11766282

Minimum DB seq length: 0
Maximum DB seq length: 200000000
Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   GenEmbl:*
                1: gb_ba:*
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                15: gb_pl:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	870	100.0	870	8	AY293286	AY293286 Homo sapi
2	857.2	98.5	870	8	CQ947366	CQ947366 Sequence
3	857.2	98.5	990	6	CQ947428	CQ947428 Sequence
4	854	98.2	1066	6	CS105855	CS105855 Sequence
5	846	97.2	3002	8	AK131204	AK131204 Homo sapi
6	764.2	87.8	777	6	CQ947365	CQ947365 Sequence
7	704.2	80.9	717	6	CQ947364	CQ947364 Sequence
8	527.6	60.6	534	6	CQ947360	CQ947360 Sequence
9	520.2	59.8	726	6	BD060983	BD060983 Secreted
10	466.2	53.6	471	6	CQ947358	CQ947358 Sequence
11	437.6	50.3	444	6	CQ947359	CQ947359 Sequence
12	425	48.9	769	6	CS035517	CS035517 Sequence
13	425	48.9	769	6	CS044469	CS044469 Sequence
14	402.8	46.3	1903	6	BD131124	BD131124 45 human
15	402.8	46.3	1903	6	CS132603	CS132603 Sequence
16	402.8	46.3	1903	6	AR339778	AR339778 Sequence
17	388	44.6	396	6	CQ947363	CQ947363 Sequence
18	378	43.4	1940	6	BD131144	BD131144 45 human
19	378	43.4	1940	6	CS132623	CS132623 Sequence
20	378	43.4	1940	6	AR339797	AR339797 Sequence
21	376.2	43.2	381	6	CQ947357	CQ947357 Sequence
22	326.6	37.5	333	6	CQ947362	CQ947362 Sequence
23	315.8	36.3	127852	8	AC092894	AC092894 Homo sapi
c 24	315.8	36.3	143094	14	AC024131	AC024131 Homo sapi
25	315.8	36.3	175135	14	AC079211	AC079211 Homo sapi
26	285.2	32.8	2230	9	BC092588	BC092588 Rattus no
27	276.6	31.8	422	6	AX779565	AX779565 Sequence
28	276.6	31.8	465	9	AX780935	AX780935 Mus muscu
29	275.6	31.7	921	9	AY293285	AY293285 Mus muscu
c 30	267.6	30.8	921	9	CQ947408	CQ947408 Sequence
31	267.6	30.8	1250	9	CQ947429	CQ947429 Sequence
32	267.6	30.8	1276	6	CQ947433	CQ947433 Sequence
33	264.6	30.4	957	9	CQ947430	CQ947430 Sequence
34	264.6	30.4	1722	9	CQ947431	CQ947431 Sequence
35	258.8	29.7	927	9	AY504099	AY504099 Rattus no
36	254.2	29.2	831	9	CQ947406	CQ947406 Sequence
37	236.8	27.2	750	9	CQ947407	CQ947407 Sequence
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39	233	26.8	319	6	AX887092	AX887092 Sequence
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41	199.4	22.9	201	6	CQ947361	CQ947361 Sequence
42	198.4	22.8	537	6	CQ947413	CQ947413 Sequence
42	157.2	18.1	537	6	CQ947361	CQ947361 Sequence
43	157.2	18.1	537	6	CQ947437	CQ947437 Sequence
44	156.4	18.0	378	6	CQ947405	CQ947405 Sequence
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ALIGNMENTS

RESULT 1
AY293286

LOCUS   AY293286   870 bp   mRNA   linear   PRI 18-JUN-2003
DEFINITION Homo sapiens B and T lymphocyte attenuator (BTLA) mRNA, complete
            cds.
ACCESSION   AY293286
VERSION   AY293286.1 GI:31880026
KEYWORDS   .
SOURCE   Homo sapiens (human)
ORGANISM   Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Hominidae; Homo.
REFERENCE   1 (bases 1 to 870)
  AUTHORS   Watanabe,N., Gavrieli,M., Sedy,J.R., Yang,J., Fallarino,F.,
            Loftin,S.K., Hurchla,M.A., Zimmerman,N., Sim,J., Zang,X.,
            Murphy,T.L., Russell,J.H., Allison,J.P. and Murphy,K.M.
  TITLE   BTLA is a lymphocyte inhibitory receptor with similarities to
            CTLA-4 and PD-1
  JOURNAL   Nat. Immunol. (2003) In press
REFERENCE   2 (bases 1 to 870)
  AUTHORS   Murphy,K.M., Watanabe,N., Yang,J. and Murphy,T.L.
  TITLE   Direct Submission
  JOURNAL   Submitted (08-MAY-2003) Pathology, Washington University,
            Euclid, St. Louis, MO 63110, USA
FEATURES   Location/Qualifiers
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                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /cell_line="Ramos"
     gene   1..870
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     CDS   1..870
                     /gene="BTLA"
                     /note="immunoregulatory inhibitory receptor; similar to
                     CTLA-4 and PD-1"
                     /codon_start=1
                     /product="B and T lymphocyte attenuator"
                     /protein_id="AAP44003.1"
                     /db_xref="GI:31880027"

ORIGIN

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LGGLPLLITTWFCLPCCLRRHQGKQNELSDTAGRREINLVDAHLKSEQTEANSTRQNSQV
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RESULT 2

LOCUS   CQ947366   870 bp   DNA   linear   PAT 01-DEC-2004
DEFINITION   Sequence 42 from Patent WO200496976.
ACCESSION   CQ947366
VERSION   CQ947366.1 GI:56295403
KEYWORDS
SOURCE   Homo sapiens (human)
  ORGANISM   Homo sapiens
             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
             Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
             Hominidae; Homo.
REFERENCE   1
  AUTHORS   Kaye,J. and Wilkinson,B.
  TITLE   Spex compositions and methods of use
  JOURNAL   Patent: WO 200496976-A 42 11-NOV-2004;
             Novartis AG (CH); Novartis Pharma GmbH (AT); The Scripps Research
             Institute (US)
FEATURES   Location/Qualifiers
     source   1..870
                     /organism="Homo sapiens"
                     /mol_type="unassigned DNA"
                     /db_xref="taxon:9606"
ORIGIN

Query Match   100.0%; Score 870; DB 8; Length 870;
Best Local Similarity 100.0%; Pred. No. 3.6e-224;
Matches 870; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match   98.5%; Score 857.2; DB 6; Length 870;
Best Local Similarity 99.1%; Pred. No. 1e-220;
Matches 862; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Qy  361 ...  420
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Db  697 ...  756
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Db  877 ...  936
Qy  841 ...  870
Db  937 ...  966
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RESULT 7
US-10-371-341-1
; Sequence 1, Application US/10371341
; Publication No. US20040091884A1
; GENERAL INFORMATION:
; APPLICANT: HILARY CLARK
; APPLICANT: DANIEL L. EATON
; APPLICANT: AUSTIN L. GURNEY
; APPLICANT: BERND WRANIK
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR THE TREATMENT OF
; TITLE OF INVENTION: IMMUNE RELATED DISEASES
; FILE REFERENCE: P1996R1-US
; CURRENT APPLICATION NUMBER: US/10/371,341
; CURRENT FILING DATE: 2003-02-19
; PRIOR APPLICATION NUMBER: US 60/421,236
; PRIOR FILING DATE: 2002-10-25
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 1
; LENGTH: 1066
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-371-341-1

Query Match 98.2%; Score 854; DB 7; Length 1066;
Best Local Similarity 98.9%;
Matches 860, Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Db   84 ...  143
Qy   61 ...  120
Db  144 ...  203
Qy  121 ...  180
Db  204 ...  263
Qy  181 ...  240
Db  264 ...  323
Qy  241 ...  300
Db  324 ...  383
Qy  301 ...  360
Db  384 ...  443
Qy  361 ...  420
Db  444 ...  503
Qy  421 ...  480
Db  504 ...  563
Qy  481 ...  540
Db  564 ...  623
Qy  541 ...  600
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Db  684 ...  743
Qy  661 ...  720
Db  744 ...  803
Qy  721 ...  780
Db  804 ...  863
Qy  781 ...  840
Db  864 ...  893
Qy  841 ...  870
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RESULT 8
US-10-989-826-27
; Sequence 27, Application US/10989826
; Publication No. US20050238650A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Crowley, Craig
; APPLICANT: De Sauvage, Frederic J.
; APPLICANT: Eaton, Daniel L.
; APPLICANT: Ebens, Allen
; APPLICANT: Polson, Andrew
; APPLICANT: Smith, Victoria
; TITLE OF INVENTION: Compositions and Methods for the Treatment of Tumor of
; TITLE OF INVENTION: Hematopoietic Origin

④

OM protein - protein search, using sw model

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Biocceleration ltd.

Run on: February 8, 2006, 16:54:56 / Search time 118.5 seconds
(without alignment)
1019.010 Million cell updates/sec

Title: US-10-600-997-6
Perfect Score: 1552
Sequence: 1 MKTLPAMLGTGKLFWVFFLI............RLARNVKRAPTEYASICVRS 289

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA_Main:*
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2: /cgm2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
3: /cgm2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
4: /cgm2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep:*
5: /cgm2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep:*
6: /cgm2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1552	100.0	289	4	US-10-371-341-2	Sequence 2, Appli
2	1552	100.0	289	5	US-10-600-997-6	Sequence 6, Appl
3	1552	100.0	289	5	US-10-831-622-21	Sequence 21, Appl
4	1552	100.0	289	5	US-10-964-215-21	Sequence 21, Appl
5	1552	100.0	289	5	US-10-989-826-28	Sequence 28, Appl
6	1552	100.0	521	5	US-10-831-622-98	Sequence 98, Appl
7	1552	100.0	521	5	US-10-964-215-98	Sequence 98, Appl
8	1516	97.7	289	4	US-10-600-997-8	Sequence 8, Appl
9	1383	89.1	259	5	US-10-831-622-20	Sequence 20, Appl
10	1383	89.1	259	5	US-10-964-215-20	Sequence 20, Appl
11	1282	82.6	239	5	US-10-831-622-19	Sequence 19, Appl
12	1282	82.6	239	5	US-10-964-215-19	Sequence 19, Appl
13	1256	80.9	241	4	US-10-471-449-10	Sequence 10, Appl
14	980	63.1	178	5	US-10-831-622-15	Sequence 15, Appl
15	980	63.1	178	5	US-10-964-215-15	Sequence 15, Appl
16	860	55.4	157	5	US-10-831-622-13	Sequence 13, Appl
17	860	55.4	157	5	US-10-964-215-13	Sequence 13, Appl
18	811	52.3	148	5	US-10-831-622-14	Sequence 14, Appl
19	811	52.3	148	5	US-10-964-215-14	Sequence 14, Appl
20	745.5	48.0	212	4	US-10-062-548-88	Sequence 88, Appl
21	745.5	48.0	212	5	US-10-318-446-88	Sequence 88, Appl
22	745.5	48.0	212	6	US-11-002-755-88	Sequence 88, Appl
23	745.5	48.0	212	6	US-11-002-756-88	Sequence 88, Appl
24	743.5	47.9	306	4	US-10-600-997-5	Sequence 5, Appl
25	743.5	47.9	306	4	US-10-600-997-10	Sequence 10, Appl
26	739.5	47.6	306	5	US-10-831-622-63	Sequence 63, Appl
27	739.5	47.6	306	5	US-10-964-215-63	Sequence 63, Appl
28	739.5	47.6	306	5	US-10-831-622-99	Sequence 99, Appl
29	739.5	47.6	538	5	US-10-964-215-99	Sequence 99, Appl
30	692	44.6	538	5	US-10-831-622-18	Sequence 18, Appl
31	692	44.6	132	5	US-10-964-215-18	Sequence 18, Appl
32	691	44.5	132	5	US-10-831-622-12	Sequence 12, Appl
33	691	44.5	127	5	US-10-964-215-12	Sequence 12, Appl
34	673.5	43.4	127	5	US-10-831-622-62	Sequence 62, Appl
35	673.5	43.4	277	5	US-10-964-215-62	Sequence 62, Appl
36	635.5	40.9	277	5	US-10-831-622-61	Sequence 61, Appl
37	635.5	40.9	250	5	US-10-964-215-61	Sequence 61, Appl
38	572	36.9	250	5	US-10-831-622-17	Sequence 17, Appl
39	572	36.9	111	5	US-10-964-215-17	Sequence 17, Appl
40	516	33.2	111	4	US-10-062-548-107	Sequence 107, App
41	516	33.2	102	5	US-10-318-446-107	Sequence 107, App
42	516	33.2	102	6	US-11-002-755-107	Sequence 107, App
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45	474	30.5	204	5	US-10-964-215-57	Sequence 57, Appl

ALIGNMENTS

RESULT 1
US-10-371-341-2
; Sequence 2, Application US/10371341
; Publication No. US20040091884A1
; GENERAL INFORMATION:
; APPLICANT: HILARY CLARK
; APPLICANT: DANIEL L. EATON
; APPLICANT: AUSTIN L. GURNEY
; APPLICANT: BERND WRANIK
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR THE TREATMENT OF
; TITLE OF INVENTION: IMMUNE RELATED DISEASES
; FILE REFERENCE: P1996R1-US
; CURRENT APPLICATION NUMBER: US/10/371,341
; CURRENT FILING DATE: 2003-02-19
; PRIOR APPLICATION NUMBER: US 60/421,236
; PRIOR FILING DATE: 2002-10-25
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 2
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-371-341-2

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Best Local Similarity 100.0%; Pred. No. 1.5e-146;
Matches 289; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2
US-10-600-997-6

⑤

RESULT 2
US-10-371-341-2
; Sequence 2, Application US/10371341
; Publication No. US20040091884A1
; GENERAL INFORMATION:
; APPLICANT: HILARY CLARK
; APPLICANT: DANIEL L. EATON
; APPLICANT: AUSTIN L. GURNEY
; APPLICANT: BREND WRANIK
; TITLE OF INVENTION: IMMUNE COMPOSITIONS AND METHODS FOR THE TREATMENT OF
; TITLE OF INVENTION: IMMUNE RELATED DISEASES
; FILE REFERENCE: P1996R1-US
; CURRENT APPLICATION NUMBER: US/10/371,341
; CURRENT FILING DATE: 2003-02-19
; PRIOR APPLICATION NUMBER: US 60/421,236
; PRIOR FILING DATE: 2002-10-25
; NUMBER OF SEQ ID NOS: 2
; SEQ ID NO 2
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapien
US-10-371-341-2

Query Match 97.4%; Score 1516; DB 4; Length 289;
Best Local Similarity 97.9%; Pred. No. 1.5e-145;
Matches 283; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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Qy   61 KYCANRPHVTWCKLNGTTCVCLEDRQTSWKEEKNISFFILHFPEMLPNDNGSYRCSANFQ 120
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Qy   121 SNLIESHSTTLYVTDVKGASERPSKDEVASRPWLLYSLLPLGGLPLLLITTWFCLFCCLRR 180
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Db   241 EVYSNPCLEENKPGIVYASLNHSVIGLNSRLARNVKRAPTEYASICVRS 289

RESULT 3
US-10-600-997-6
; Sequence 6, Application US/10600997
; Publication No. US20040175380A1
; GENERAL INFORMATION:
; APPLICANT: Allison, James
; APPLICANT: Murphy, Kenneth
; APPLICANT: Watanabe, Norihiko
; APPLICANT: Murphy, Theresa
; APPLICANT: Yang, Jianfei
; APPLICANT: Zang, Xingxing
; TITLE OF INVENTION: Compositions and Methods for Modulating Lymphocyte Activity
; FILE REFERENCE: A-71608/TAL/DHR
; CURRENT APPLICATION NUMBER: US/10/600,997
; CURRENT FILING DATE: 2003-06-20
; PRIOR APPLICATION NUMBER: US 60/390,653
; PRIOR FILING DATE: 2002-06-20
; PRIOR APPLICATION NUMBER: US 60/438,593
; PRIOR FILING DATE: 2003-01-06
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 6
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-600-997-6

Query Match 97.4%; Score 1516; DB 4; Length 289;
Best Local Similarity 97.9%; Pred. No. 1.5e-145;
Matches 283; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

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          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 MKTLPAMLGTGKLFWVPFLIPYLDIWNIHGKESCDVQLYIKRQSEHSILAGDPFELRCPV 60

Qy   61 KYCANRPHVTWCKLNGTTCVCLEDRQTSWKEEKNISFFILHFPEMLPNDNGSYRCSANFQ 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 KYCANRPHVTWCKLNGTTCVCLEDRQTSWKEEKNISFFILHFPVLPNDNGSYRCSANFQ 120

Qy   121 SNLIESHSTTLYVTDVKGASERPSKDEVASRPWLLYSLLPLGGLPLLLITTWFCLFCCLRR 180
          |||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db   121 SNLIESHSTTLYVTDVKSASERPSKDEMASRPWLIYSLLPLGGLPLLLITTCFCLFCCLRR 180

Qy   181 HQGKQNELSDTAGREINLVDAHLKSEQTEASTRQNSQVLLSBAGIYDNDPDLCFRMQBGS 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 HQGKQNELSDTAGREINLVDAHLKSEQTEASTRQNSQVLLSBTGIYDNDPDLCFRMQBGS 240

Qy   241 EVCSNPCLEENKPGIVYASLNHSVIGLNSRLARNVKRAPTEYASICVRS 289
          ||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 EVYSNPCLEENKPGIVYASLNHSVIGLNSRLARNVKRAPTEYASICVRS 289

; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-600-997-6

Query Match 97.4%; Score 1516; DB 4; Length 289;
Best Local Similarity 97.9%; Pred. No. 1.5e-145;
Matches 283; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy   1 MKTLPAMLGTGKLFWVPFLIPYLDIWNIHGKESCDVQLYIKRQSEHSILAGDPFELECPV 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 MKTLPAMLGTGKLFWVPFLIPYLDIWNIHGKESCDVQLYIKRQSEHSILAGDPFELRCPV 60

Qy   61 KYCANRPHVTWCKLNGTTCVCLEDRQTSWKEEKNISFFILHFPEMLPNDNGSYRCSANFQ 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 KYCANRPHVTWCKLNGTTCVCLEDRQTSWKEEKNISFFILHFPVLPNDNGSYRCSANFQ 120

Qy   121 SNLIESHSTTLYVTDVKGASERPSKDEVASRPWLLYSLLPLGGLPLLLITTWFCLFCCLRR 180
          |||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db   121 SNLIESHSTTLYVTDVKSASERPSKDEMASRPWLIYSLLPLGGLPLLLITTCFCLFCCLRR 180

Qy   181 HQGKQNELSDTAGREINLVDAHLKSEQTEASTRQNSQVLLSBAGIYDNDPDLCFRMQBGS 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 HQGKQNELSDTAGREINLVDAHLKSEQTEASTRQNSQVLLSBTGIYDNDPDLCFRMQBGS 240

Qy   241 EVCSNPCLEENKPGIVYASLNHSVIGLNSRLARNVKRAPTEYASICVRS 289
          ||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 EVYSNPCLEENKPGIVYASLNHSVIGLNSRLARNVKRAPTEYASICVRS 289

RESULT 4
US-10-831-622-21
; Sequence 21, Application US/10831622
; Publication No. US20040024857A1
; GENERAL INFORMATION:
; APPLICANT: Kaye, Jonathan
; APPLICANT: Wilkinson, Beverley
; TITLE OF INVENTION: TSRI 810.1
; FILE REFERENCE: SPEX COMPOSITIONS AND METHODS OF USE
; CURRENT APPLICATION NUMBER: US/10/831,622
; CURRENT FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/467,206
; PRIOR FILING DATE: 2003-04-30
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 289
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-831-622-21

Query Match 97.4%; Score 1516; DB 5; Length 289;
Best Local Similarity 97.9%; Pred. No. 1.5e-145;
Matches 283; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy   1 MKTLPAMLGTGKLFWVPFLIPYLDIWNIHGKESCDVQLYIKRQSEHSILAGDPFELECPV 60
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   1 MKTLPAMLGTGKLFWVPFLIPYLDIWNIHGKESCDVQLYIKRQSEHSILAGDPFELRCPV 60

Qy   61 KYCANRPHVTWCKLNGTTCVCLEDRQTSWKEEKNISFFILHFPEMLPNDNGSYRCSANFQ 120
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   61 KYCANRPHVTWCKLNGTTCVCLEDRQTSWKEEKNISFFILHFPVLPNDNGSYRCSANFQ 120

Qy   121 SNLIESHSTTLYVTDVKGASERPSKDEVASRPWLLYSLLPLGGLPLLLITTWFCLFCCLRR 180
          |||||||||||||||||||||||||||||||||||||||||:|||||||||||||||||
Db   121 SNLIESHSTTLYVTDVKSASERPSKDEMASRPWLIYSLLPLGGLPLLLITTCFCLFCCLRR 180

Qy   181 HQGKQNELSDTAGREINLVDAHLKSEQTEASTRQNSQVLLSBAGIYDNDPDLCFRMQBGS 240
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db   181 HQGKQNELSDTAGREINLVDAHLKSEQTEASTRQNSQVLLSBTGIYDNDPDLCFRMQBGS 240

Qy   241 EVCSNPCLEENKPGIVYASLNHSVIGLNSRLARNVKRAPTEYASICVRS 289
          ||||||||||||||||||||||||||||||||||||||||||||||||
Db   241 EVYSNPCLEENKPGIVYASLNHSVIGLNSRLARNVKRAPTEYASICVRS 289